

Amolt 018/02

APPLICANT(S):

Takayuki Gomi et al.

OLD DOCKET NO.:

P97,2608

09792909-3746

NEW DOCKET NO.:

08/965,286 GROUP ART UNIT:

2811

DATE FILED:

SERIAL NO.:

November 6, 1997

EXAMINER:

Ori. Nadav

INVENTION:

"SEMICONDUCTOR DEVICE INCLUDING HIGH SPEED TRANSISTORS AND HIGH VOLTAGE TRANSISTORS DISPOSED ON A SINGLE SUBSTRATE (As Amended)"

Hon. Assistant Commissioner for Patents Washington, DC 20231

SIR:

This Amendment "J" is filed in response to the Office Action of April 24, 2002. Please reconsider the application in view of the amendment and remarks presented below.

IN THE CLAIMS

Please amend claims 1, 3, 6 and 22 as follows:

RECEIVED

1. (Amended) A semiconductor device having a first vertical type bipolar transistor and a second vertical type bipolar transistor having a breakdown voltage that is higher than a breakdown voltage of the first vertical type bipolar transistor, said transistors each having an emitter, a base, and a collector, the semiconductor device comprising:

an epitaxial layer formed on the substrate;

a substrate of a first conductive type;

a first embedded diffusion layer formed as a part of the first vertical type bipolar transistor in a first upper part of the substrate and in the epitaxial layer;

a second embedded diffusion layer formed as a part of the second vertical type bipolar transistor directly on the substrate, in a second upper part of the substrate,

wherein the first embedded diffusion layer is not disposed within the second embedded diffusion layer,

wherein the second embedded diffusion layer is of a second conductive type that is a different conductive type from the first conductive type substrate and includes an impurity 10/02/2002 NMOHAMM1 00000031 08965286

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SONNENSCHEIN, NATH & ROSENTHA

Chicago, IL 60606

8000 Sears Tower 233 S. Wacker Drive 312/876-8000

IN RE APPLICATION OF:

Takayuki Gomi, et al.

ATTORNEY DOCKET NO. 09792909-3746

SERIAL NO.:

08/965,286

GROUP ART UNIT: 2811

FILED:

November 6, 1997

EXAMINER:

O. Nadav

FOR:

"SEMICONDUCTOR DEVICE INCLUDING HIGH SPEED TRANSISTORS AND HIGH TRANSISTORS DISPOSED ON A SINGLE SUBSTRATE (As Amended)"

AMENDMENT "J"

Hon. Assistant Commissioner of Patents

Washington D.C. 2023

SIR:

Transmitted herewith is an amendment in the above-identified application.

No additional claim fee is required.

The fee has been calculated as shown below.

			CLAIMS AS AMENDE	ED		
	(2) CLAIMS REMAINING AFTER AMENDMENT		(4) HIGHEST NO. PREVIOUSLY PAID FOR	(5) PRESENT EXTRA	(6) RATE	(7) ADDITIONA FEE
TOTAL CLAIMS		MINUS	20		() X 9.00 () X 18.00	0.00
INDEP. CLAIMS		MINUS	3		() X 39.00 () X 80.00	0.00
Application amended to contain any multiple dependent claims not previously paid for.				() YES () NO	() \$130.00 () \$260.00 ONE TIME	
TOTAL ADDITIONA FOR THIS AMENDM					\$0.00	

If the entry in Column 2 is less than the entry in Column 4, write "0" in Column 5

- Applicant petitions the Commissioner of Patents and Trademarks to extend this time for response to the Final Office Action dated April 24, 2002 for two month(s) so that the period for response is extended to September 24, 2002. The Commissioner is hereby authorized to charge American Express Account No. 378571697401002 in the amount of \$400.00 to cover the twomonth extension fee. Form 2038 is attached.
- A check in the amount of \$_to cover the additional claim fee is enclosed.
- A check for \$____ accompanying attached Terminal Disclaimer under 37 C.F.R. §1.321.
- A check for \$ and Petition
- The Commissioner is hereby authorized to any additional fees which may be required, or to credit any overpayment to account No. 19-3140. A duplicate of this sheet is enclosed.

When phoning re this application, please call 312/876-8000 - Ext. 2606.

SONNENSCHEIN NATH & ROSENTHAL

Christopher P. Rauch

(Reg. No. 45,034)

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to the Assistant Commissioner of Patents, Washington, D.C. 20231 on September 23, 2002

> SIGNATURE September 23, 2002

If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20 write "20" in this space.